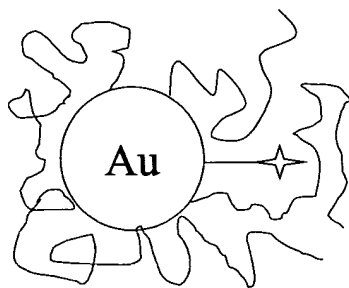


Short chain protected gold nanoparticle with one binding ligand



Long chain protected gold nanoparticle with one binding ligand

Figure 1

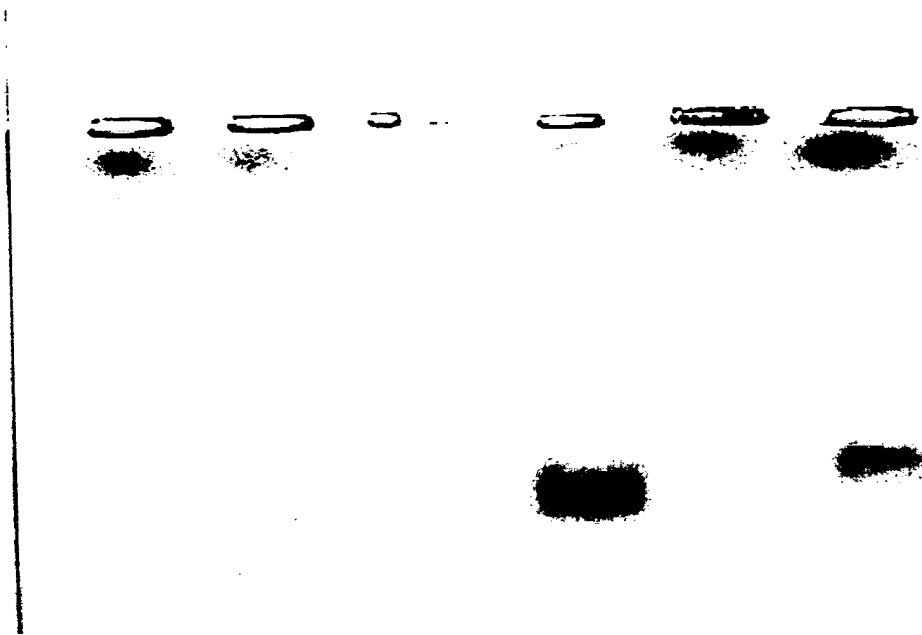


Figure 2
Gel image of protein binding assay

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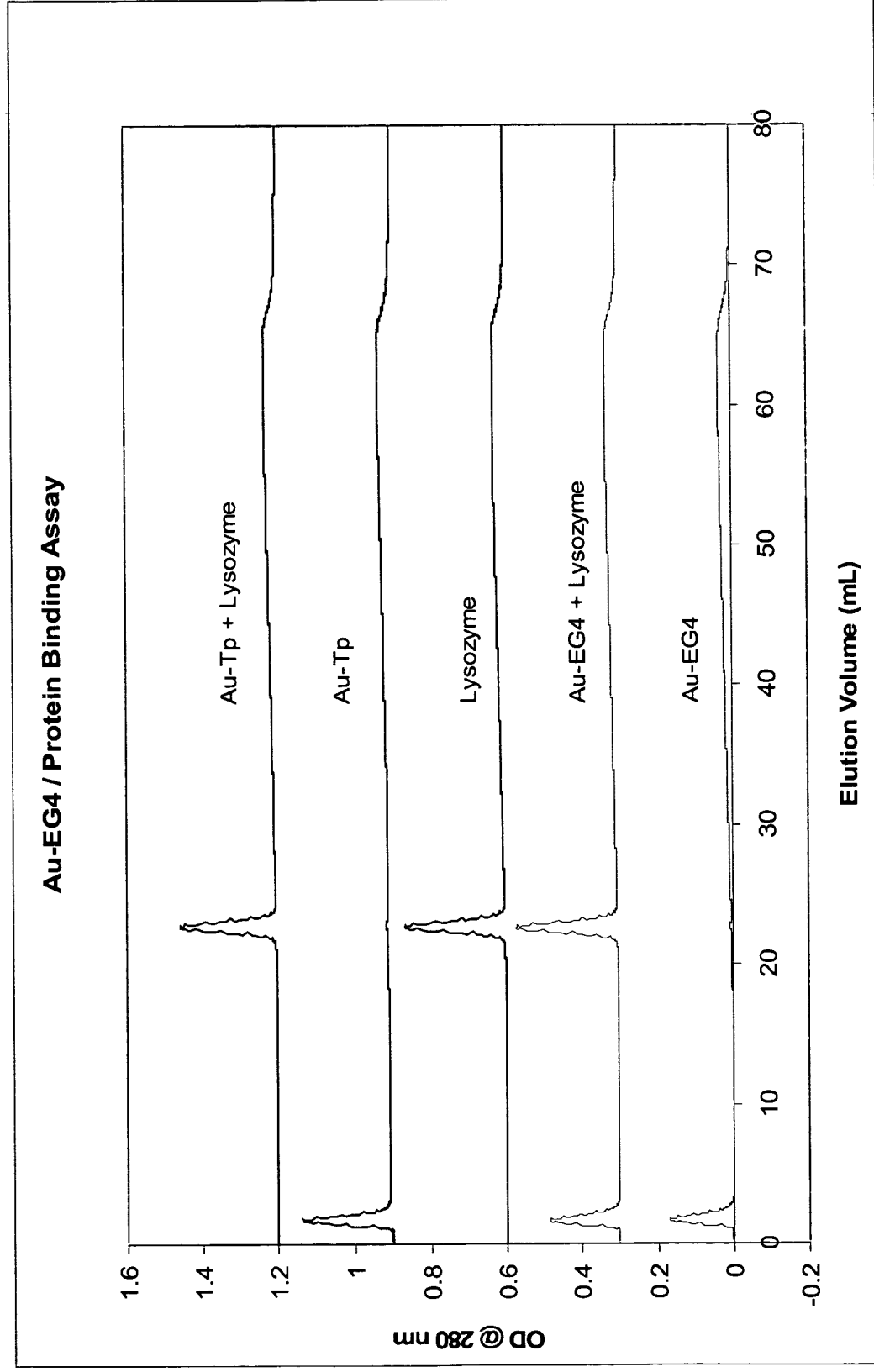


Figure 3

Chromatograph results of strong cation exchange chromatography for Au-Tp and Au-EG4 binding with lysozyme

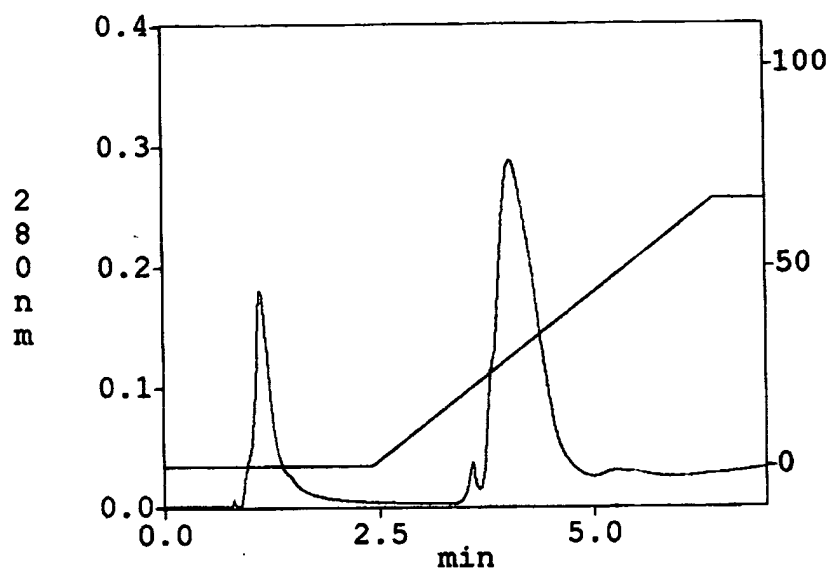


Figure 4
Chromatograph of Au-EG4 and Au-Tp particles through a strong anion exchange column

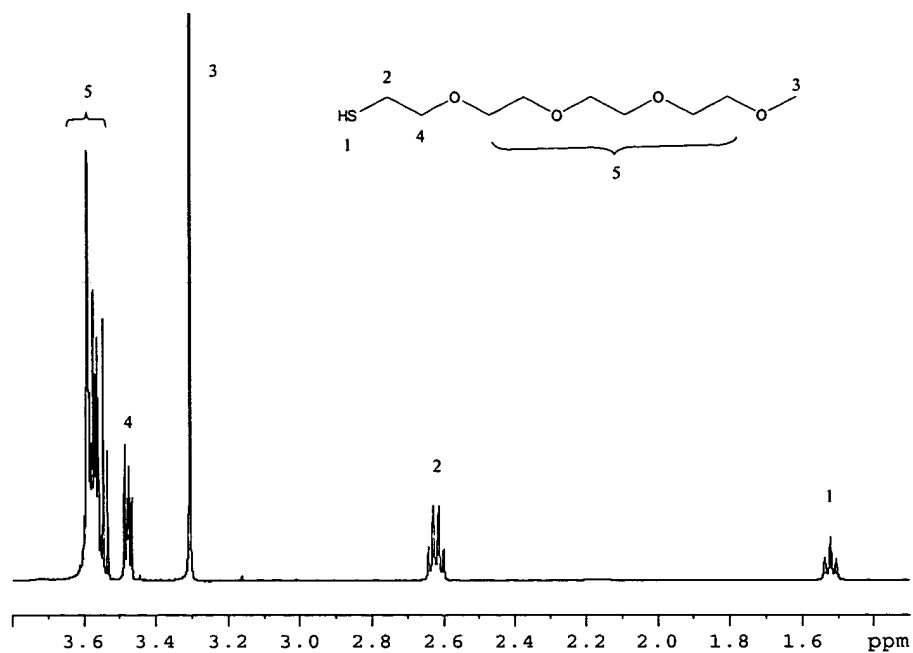


Figure 5a
NMR spectra of the free EG4-SH molecule

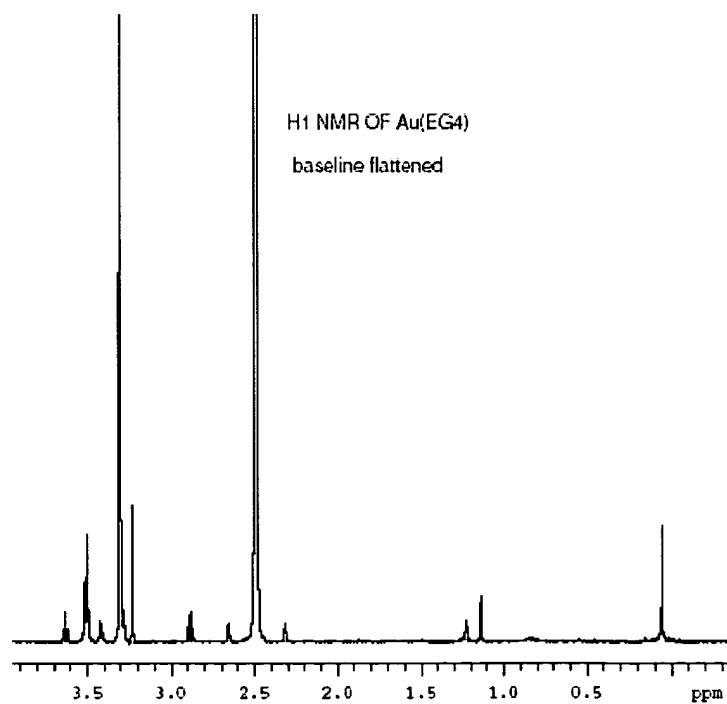


Figure 5b
NMR spectra of Au-S-EG4 nanoparticle

Lane 1: 10 μ L of Au-EG₄ particles at \sim 100 μ M, Lane 2 to 3, same amount of Au particles mixed with 5 μ g of total RNA and 1 μ g of chromosomal DNA, respectively

1 2 3



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Figure 6
Gel electrophoresis image of a binding assay of Au-EG₄ particles with
RNA and DNA